A NEW SPECIES OF URODISCELLA (ACARINA, UROPODIDAE) FROM AUSTRALIA

BY H. WOMERSLEY, SOUTH AUSTRALIAN MUSEUM

Fig. 1

SYNOPSIS

The myrmecophilous genus Urodiscella Berlese 1903 is recorded for the first time from Australia. It is represented by the new species Urodiscella nitida sp. nov. described from a single female found on the larva of an ant Myrmecia gulosa Fabr. from Carlton, New South Wales.

A key to the known species of the genus, four from England and Europe and one from South Africa, besides the new species is given.

All the species with the possible exception of the South African one are myrmecophilous in habit.

INTRODUCTION

The genus Urodiscella was erected by Berlese (1903b) for Uropoda ricasoliana Berl. 1889, Uropoda philoctena Trouessart 1902 and Urodiscella alophora n. sp. with ricasoliana as the genotype, all of which are associated with ants. All three species were figured in Berlese 1903c.

In 1918 Hull added a fourth species U. signata n. sp. from Eugland, also myrmecophilous in habit.

More recently a fifth species has been described by Ryke (1958) from South Africa but this species was found in straw and not therefore definitely associated with ants.

Brief keys to the earlier species were published first by Berlese (1903b, c) and then Hull (1918). Ryke did not attempt to key his species. The brief descriptions of Berlese and Hull make their keys difficult to assess, but a tentative key to all the five known species is here attempted based on those of Berlese and Hull.

RECORDS OF THE S.A. MUSEUM

KEY TO THE SPECIES OF URODISCELLA

 Dorsal setae strong and lanceolate. Female 625µ long	Ryke 1958
Dorsal setae smaller and tapering .	4
(England; with Lasius flavus.)	
Dorsal shield smooth	3
3. All ventral shields smooth and shining At least the perigenital shield punctate	4 5
4. Length of female 570µ	philoctena (Trouest. 1902)
Length of female 812μ	nitida sp. nov.
 5. Ventral shields punctate. Female 750µ long	ricasoliana (Berl. 1889)
Ventral shields smooth and shining. Male 930µ long	alophora Berl. 1903

Urodiscella nitida sp. nov.

Fig. 1, A-K

Type. Holotype female, from the collection of Dr. R. V. Southcott (No. ACA 484) from the larva of Myrmecia gulosa Fabr. (No. A 257) and collected at Carlton, N.S.W., 15th July, 1958 (coll. D. Miller).

WOMERSLEY-NEW SPECIES OF URODISCELLA

The specimen presented to the South Australian Museum by Dr. Southcott has been dissected, one slide containing the gnathosoma, chelicerae and legs I, the other the remainder of the body.

Description of Female. A broadly ovate almost rounded, dark brown convex species. Length of idiosoma 812μ , width 660μ .

Dorsum. The dorsal shield smooth and shining, with many minute fine setae; similar setae on the marginal shields. The marginal shields contour the dorsal shield and are entirely separated by a narrow strip of cuticle except anteriorly where they unite and are fused with the dorsal shield (fig. B).

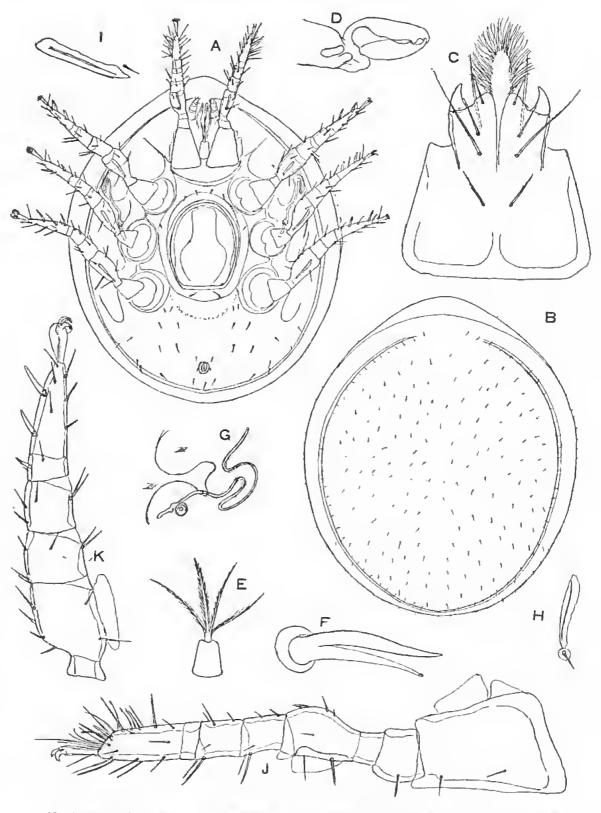
Venter. As shown in fig. A. All shields smooth. All setae small and simple. An anterior pair of sternal setae (shown by Ryke for potschefstroomensis) cannot be seen and the four setae in a transverse row shown by Ryke as being on the anterior of the perigenital shield appear to be on the sternal shield (see fig. A); the perigenital shield otherwise has only two pairs of setae, one situated between coxae II and III, and the other pair at the posterior end; the margin of the perigenital shield is simple except in the region of coxae II where under high magnification it is seen to be finely crenulate. The genital shield is oval with truncate base; it is 232μ long by 166p wide and extends from the middle of coxae IV to the middle of coxae II. The ventrianal shield bears approximately eleven pairs of setae besides the paranal and postanal setae, the paranals being placed well behind the amus. The leg grooves and exopodal shields are as shown. The peritreme is strongly folded (fig. G) with the stigma situated opposite coxae III and extending a short distance posterior of the stigma. The tritosternum is as shown (fig. E) with four laciniae.

Gnathosoma. The hypostome (fig. C) bears the usual four pairs of setae of which at least the posterior two pairs are ciliated or serrated; the second pair is much the longest. The labial cornicles are as figured, short and stout. The tectum is similar to that described and figured by Ryke for *potschefstroomensis*. The tined seta of the palpal tarsus is 2-tined (fig. F); the palpal tarsus bears two moderately long serrated setae. Chelicerae short and stout, each finger with one tooth (fig. D).

Legs. Coxae of leg I with outer laminae or crests as figured, at the base of which is a seta (fig. J and H); femora of other legs all with similar crests or laminae. Ambulacra of all legs well developed

D

351



Urodiscella nitida sp. nov. Female, A. Ventral view. B. Dorsum, C. Gnathosoma. D. Chelicerae. E. Tritosternum. F. Tined seta of palpal tarsus. G. Stigma and peritreme. H. Crest of femur I. I. Crest of femur IV. J. Leg I. K. Leg IV.

with long pretarsi, and paired claws. Legs I rather more slender than the others, to 464μ long, II and III 370μ long, IV 394μ long, some of the tarsal setae on legs II-IV strongly spinelike.

REFERENCES

Berlese, A., 1889: A.M.S. ital. reperta., fasc. 54, no. 10.

------ 1903a: Zool. Anz., 27 (1): 21.

- ------ 1903b: Acari nuovi, Manipl. I: 249.
- ———— 1903c: Illus. monog. Acari mirmecofili:—Redia. I. 339-343, taf. VIII fig. 19-23.

Donisthorpe, H. St. J. K., 1915: British Ants: 200.

------ 1927: Guests of British Ants: 204, 212.

Hull, J. E., 1918: Terrestrial Acari of the Tyne Province—Tr. N.H. Soc. Northumberland and Durham 5 (1): 50.

Ryke, P. A. J., 1958: Proc. Zool. Soc. London 310 (2): 223, fig. 16-21 Trouessart, E. L., 1902: Notes sur les Uropodinae: 36.